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TOOLS; MEASURING INSTRUMENTS

GRINDING MACHINES FOR HARD-ALLOY CUTTING TOOLS -- Moscow, Reztsy, 1952

/The source document, available at the Library of Congress, contains photographs of Models 362V and 362B machines for grinding hard-alloy tools and of Model 3818 lapping machine. Each machine has a plant trade mark which represents the Leningrad Machine Tool Building Plant imeni Il'ich. However, attention is called to the Soviet Catalog of Metal-Cutting Machine Tools, FDD Translation No 301, 25 April 1951, which identifies the manufacturer of Model 3818 as the Alapayevsk Machine Tool Building Plant. The photograph in the catalog presents a side view of the machine tool whereas the present source gives the front view./

QUALITY OF FREZER PRODUCTS HAS DROPPED -- Moscow, Trud, 25 Apr 53

The Moscow Automobile Repair Plant No 3 receives a large part of its metal-cutting tools from the Moscow Frezer Plant. A. Petrov, a worker at the Division of Technical Control of the automobile plant, has observed that the quality of the Frezer products has dropped noticeably during the past two years.

Recently, he checked 190 chasers which had not yet been used. He found that 107 of them were unsuitable.

Workers frequently have to recondition new tools produced by the Frezer Plant. The chasers tear the threads because they have not been hardened properly. Milled twist drills 3.5 millimeters or more in diameter have not been hardened throughout the length of the spiral flute. As a result, when the drill cuts into the metal, the spirals unwind near the shank, or the drill bends or breaks.

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It must be noted that many tools are stamped "del'ta" which indicates that certain deviations from the standard are permitted. However, this does not make it right to violate accurate tool dimensions. Poorly hardened chasers and drills cannot be labeled "del'ta." They are simply rejects. It is impossible to work with such tools.

TOOL PLANT MAKES SPECIAL TOOLS -- Moscow, Vechernyaya Moskva, 13 May 53

The gear-cutting tool shop of the Moscow Tool Plant is now processing special cutting tools for the Novotrubnyy Plant in the Urals [Novoural'sk Pipe-Rolling Plant?], and master gears for the Moscow Plant imeni Budennyy.

DEVELOP AND MANUFACTURE NEW-TYPE SAW BLADE -- Minsk, Sovetskaya Belorussiya, 25 Mar 53

An important achievement at the Minsk Tool Plant of the Ministry of Machine Tool Building USSR is the perfection of a new type of saw blade. The technological process for its manufacture was completed ahead of schedule, and the series production, scheduled for the second quarter of 1953, has been started. The first tens of thousands of the new saw blades have been manufactured and released.

SAVE METAL AT KALIBR PLANT -- Frunze, Sovetskaya Kirgiziya, 29 Apr 53

N. Markeyev, foreman of the forging shop of the Moscow Kalibr Plant, has suggested that the waste left after forming micrometer frames be utilized. Nuts are now being made from this waste. This innovation has made it possible to save more than 7 tons of metal.

V. Durasov, fitter, changed the design of a die for making sliding-gauge parts, as a result of which 26 tons of metal are being saved.

The design of thread ring gauges has also been changed. This has made it possible to increase labor productivity and to decrease the consumption of high-speed steel by nearly 2 tons. As a result of proper utilization of electrodes, V. Kamenov increased the life of instruments for measuring the temperature in furnaces. The number of such instruments needed has been cut in half.

INCREASE PRODUCTION OF PRECISION MEASURING INSTRUMENTS -- Moscow, Izvestiya, 5 May 53

Indicators, micrometers, and gauge blocks with the KI plant trademark are used at many plants of the USSR. The Kirov Krasnyy Instrumental'shchik Plant has been increasing its production of these items each year. At the same time, new types of high-precision instruments have been perfected. In 1953, the production of gauge blocks for the watch industry has been organized for the first time.

AUTOMATIC FOR CHECKING TAPS -- Moscow, Izvestiya, 24 May 53

Workers of the Institute of Machine Studies and Automatics of the local [L'vov] affiliate, Academy of Sciences, Ukrainian SSR are designing an automatic for checking taps. It is destined for the L'vov Tool Plant.

NEW COLD-HARDENING MACHINE -- Moscow, Vestnik Mashinostroyeniya, May 53

N. N. Koshkin, candidate of technical sciences and scientific associate of the Leningrad Institute of Refrigeration and Dairy Industry, invented an air cooling machine (turbodetander) /gas turbomotor?/ for hardening cutting tools and items made of alloy steel. The machine operates on the principle of expanding compressed air and lowering the temperature in a chamber to minus 120 degrees /centigrade/. The first model of the machine has been tested successfully at the Kirov Plant.

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